



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/708,875	03/30/2004	PEI-MING SHAN	12304-US-PA	2874	
31561 75	590 08/30/2006	•	EXAMINER		
JIANQ CHYUN INTELLECTUAL PROPERTY OFFICE			YENKE, BRIAN P		
7 FLOOR-1, N ROOSEVELT	O. 100 ROAD, SECTION 2	ART UNIT	PAPER NUMBER		
TAIPEI, 100			2622		
TAIWAN			DATE MAILED: 08/30/2000	DATE MAILED: 08/30/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary			Application No. Application		ant(s)			
			10/708,875	SHAN ET A	L.			
		Examiner	Art Unit					
			BRIAN P. YENKE	2622				
Period fo	The MAILING DATE of this commu or Reply	nication appe	ars on the cover shee	t with the corresponder	ice address			
WHIC - Exter after - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR CHEVER IS LONGER, FROM THE IN INSIGN OF THE	MAILING DA ⁻ s of 37 CFR 1.136 munication. tatutory period will y will, by statute, c	TE OF THIS COMMU (a). In no event, however, ma I apply and will expire SIX (6) tause the application to become	UNICATION. In a reply be timely filed MONTHS from the mailing date of the ABANDONED (35 U.S.C. § 1)	of this communication.			
Status								
1)	Responsive to communication(s) file	ed on	_					
			ection is non-final.					
<i>'</i> =								
,—	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims		•					
- 4)⊠	4)⊠ Claim(s) <u>1-11</u> is/are pending in the application.							
-	4a) Of the above claim(s) is/are withdrawn from consideration.							
	Claim(s) is/are allowed.							
· <u> </u>	☑ Claim(s) islate allowed. ☑ Claim(s) <u>1-5,7,8,10 and 11</u> is/are rejected.							
	Claim(s) <u>6 and 9</u> is/are objected to.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						
	Claim(s) are subject to restri	ction and/or	election requirement.					
	on Papers							
_	•							
·	The specification is objected to by the			L:444- L 44 F				
10)[2]	10)⊠ The drawing(s) filed on 25 June 2004 is/are: a)⊠ accepted or b)□ objected to by the Examiner.							
	Applicant may not request that any obje			-	• •			
44)	Replacement drawing sheet(s) including	_	•		, ,			
וויי	The oath or declaration is objected t	o by the Exa	miner. Note the attac	ned Office Action of to	rm P1O-152.			
Priority u	ınder 35 U.S.C. § 119							
	Acknowledgment is made of a claim ☑ All b)☐ Some * c)☐ None of:	for foreign p	oriority under 35 U.S.	C. § 119(a)-(d) or (f).				
	1. Certified copies of the priority documents have been received.							
	2. Certified copies of the priority documents have been received in Application No							
	3. Copies of the certified copies of the priority documents have been received in this National Stage							
	application from the Internation	onal Bureau ((PCT Rule 17.2(a)).					
* S	See the attached detailed Office action	on for a list of	f the certified copies	not received.				
Attachmen	t(s)							
	e of References Cited (PTO-892)		4) 🗀 Intende	ew Summary (PTO-413)				
	e of Draftsperson's Patent Drawing Review (I	PTO-948)	Paper	No(s)/Mail Date				
	nation Disclosure Statement(s) (PTO-1449 or r No(s)/Mail Date	PTO/SB/08)	5) Notice of Informal Patent Application (PTO-152)6) Other:					

DETAILED ACTION

Specification

1. Claim 1, line 4 is objected to because of the following informalities: recites "temprarily" which should be "temporarily". Appropriate correction is required.

In the disclosure, page 23, line 5, recites "locateon", proper correction is required.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2a. Claims 1-2, 7-8 and 10-11 rejected under 35 U.S.C. 103(a) as being unpatentable over Kim et al., US 5,990,978 in view of Kim et al., US 6,822,691.

Kim discloses a motion detection scheme (4) (Figs 1-5) which detects the amounts of motion within an image *before performing* Y/C separation, where the sampling is performed a received composite video signal.

However, Kim only discloses determining the motion/still status of the signal using the present and previous (m-1) frames. The concept of using the additional next frame and previous(m-2) frames are conventional options available to the user/designer in determining how many frames the detection process should incorporate, where a larger number of frames would

Application/Control Number: 10/708,875

Art Unit: 2622

obviously require more computations, but at the same time provide a more precise motion determination as would be expected.

The examiner incorporates Kim et al. (US 6,822,691) which discloses the concept of determining/detection the amount of motion by using the claimed next, current, previous (m-1) and previous (m-2) frames (Fig 3).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to modify Kim which discloses motion determination using the present/previous frame, by also including the next and previous (m-2) frames as done conventionally (Kim et al), in order to provide an even more accurate determination on the amount/detection of motion, which would ultimately provide the user a better displayed image.

Regarding claims 2, and 10-11

The combination of Kim/Kim et al., does not disclose the concept of averaging the differences to obtain the motion factor.

Kim discloses a system which computes two differences and the determination of motion is based upon those results. Kim et al, discloses a system which computes a plurality of differences in order to analyze the amount of motion in the image, wherein differences between different frames (i.e. current and m-2 and previous (m-1) and next are computed).

The concept of averaging motion values in order to ascertain the status (still/motion) of the signal is conventional in the art, since an average accounts for all the computed values in determining the status. The examiner takes "OFFICIAL NOTICE" regarding a system which averages the computed motion value differences in determining the amount of motion within an

image. In the even the applicant traverses such notice, the examiner requests the applicant to review the references cited (most notably US 6,414,719, Fig 3).

In considering claims 7 and 8,

The combination above, does not recite the conventional practice of selecting/detecting the minimum of the averages. This concept is well known in the art, since the smallest motion value selected from a group of values, provides the unit with the least amount of change between pixels. In the even the applicant traverses such notice, the examiner requests the applicant to review the references cited (most notably US 5,703,968 and US 6,239,842).

2b. Claims 3-5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kim et al., US 5,990,978 in view of Kim et al., US 6,822,691 and AAPA (applicant's admitted prior art).

Regarding claims 3-4,

Neither Kim nor Kim et al, disclose the conventional determining of the composite video signal being NTSC and the sampling step as recited.

However this is conventional practice in the art as recited by applicant's admitted prior art (Fig 3 and associated description), therefore since Kim discloses a 3d comb filter processing a received NTSC signal it would be obvious to sample such as done conventionally, in order to sample at the 4 times the subcarrier and when the subcarrier phase is within the conventional range. For claim 4, refer to claim 2 above.

Regarding claim 5,

Application/Control Number: 10/708,875 Page 5

Art Unit: 2622

The rejection is the same as claim 3, only the signal is now PAL which is also disclosed

by AAPA as being Prior Art.

Allowable Subject Matter

3. Claims 6 and 9 are objected to as being dependent upon a rejected base claim, but would

be allowable if rewritten in independent form including all of the limitations of the base claim

and any intervening claims.

Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's

disclosure—see newly cited references on attached form PTO-892.

5. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Brian Yenke whose telephone number is (571)272-7359. The

examiner work schedule is Monday-Thursday, 0730-1830 hrs.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

Supervisor, David L. Ometz, can be reached at (571)272-7593.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

or faxed to:

(571)-273-8300

Application/Control Number: 10/708,875 Page 6

Art Unit: 2622

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is

(703)305-HELP.

General information about patents, trademarks, products and services offered by the United States Patent and Trademark Office (USPTO), and other related information is available by contacting the USPTO's General Information Services Division at: 800-PTO-9199 or 703-308-HELP

(FAX) 703-305-7786

(TDD) 703-305-7785

An automated message system is available 7 days a week, 24 hours a day providing informational responses to frequently asked questions and the ability to order certain documents. Customer service representatives are available to answer questions, send materials or connect customers with other offices of the USPTO from 8:30 a.m. - 8:00p.m. EST/EDT, Monday-Friday excluding federal holidays.

For other technical patent information needs, the Patent Assistance Center can be reached through customer service representatives at the above numbers, Monday through Friday (except federal holidays) from 8:30 a.m. to 5:00 p.m. EST/EDT.

The Patent Electronic Business Center (EBC) allows USPTO customers to retrieve data, check the status of pending actions, and submit information and applications. The tools currently available in the Patent EBC are Patent Application Information Retrieval (PAIR) and the Electronic Filing System (EFS). PAIR

Art Unit: 2622

(http://pair.uspto.gov) provides customers direct secure access to their own patent application status information, as well as to general patent information publicly available. EFS allows customers to electronically file patent application documents securely via the Internet. EFS is a system for submitting new utility patent applications and pre-grant publication submissions in electronic publication-ready form. EFS includes software to help customers prepare submissions in extensible Markup Language (XML) format and to assemble the various parts of the application as an electronic submission package. EFS also allows the submission of Computer Readable Format (CRF) sequence listings for pending biotechnology patent applications, which were filed in paper form.

B.P.Y

28 August 2006

BRIAN P. YENKE